

**APPARATUS AND METHOD FOR DETECTING NEURAL SIGNALS AND USING
NEURAL SIGNALS TO DRIVE EXTERNAL FUNCTIONS**

ABSTRACT

A system and method for capturing a neural signal inside a patient's skull, transmitting it to a remote receiver, and using it to control an application. A plurality of skull screws is inserted on the skull and under the scalp, and the skull screws are connected to a transmitter. The differential potential between two skull screws are detected, amplified, and transmitted to a receiver connected to a computing device. The computing device checks for the signal's voltage level and duration before using it for controlling the application.

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